

**B)** The waves must be 90° out of phase at all times. **D)** The waves must be 270° out of phase at all times.

D) All answers are correct **D)** 2 s **D)** 0.4 m/s



B) Its frequency will increase D) (A and C) are correct C) Ultraviolet wave D) Gamma ray C) Huygens's **D)** Planck's **D**)  $\left(\frac{q}{m^{p}}\right)$ **C)**  $(B\ell v)$ **C)**  $6.3 \times 10^{-6}$  m **D)** 5.66 × 10<sup>-4</sup> m **C)** 2140 N **D)** 4280 N **B)** By low potential difference and high current. D) By low potential difference and low current. **B)** 0.75 **D)** 0.25 m

**D)** 0.62 H